

PROFESSIONAL
action
radio

DATE 10/9/81

SSC Service Bulletin

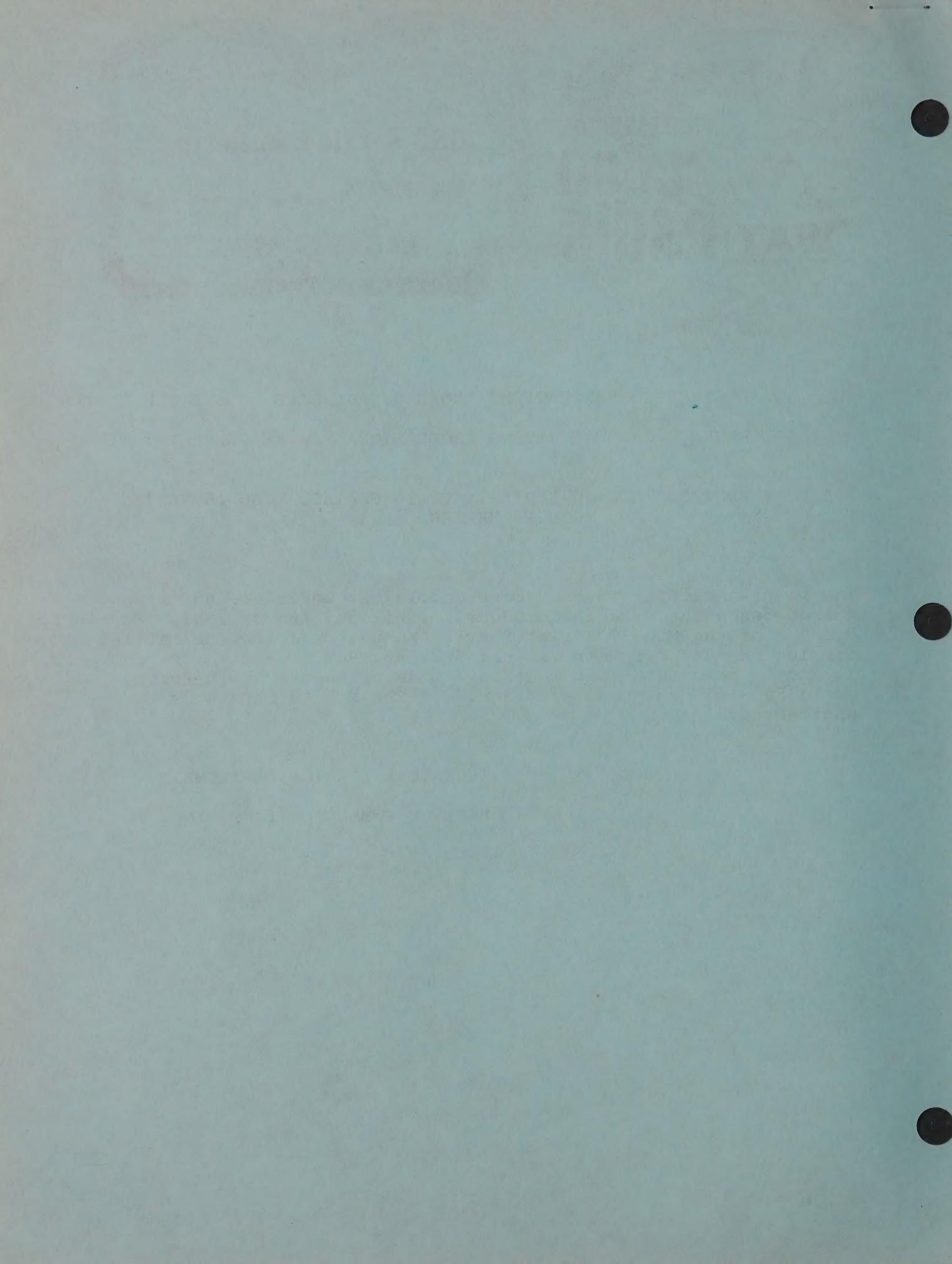
no. 81-210

TO: ALL REGENCY COMMUNICATIONS PROFESSIONAL SALES & SERVICE CENTERS
ALL REGENCY COMMUNICATIONS PROFESSIONAL SALES REPRESENTATIVES

MODELS AFFECTED: MCU 30 SERIES, MCU 15 SERIES, MCBU 15 SERIES
AND MCBU 19 SERIES

The power amplifier in the above models has undergone an extensive change beginning with the production units of August 1981. Sections 7 and 8 of the MCU 30 Series Service Manual describe the earliest version of the power amplifiers, 504-165, Rev. A - E. Sections 11 and 12 are added to the manual to describe the new version, board 504-165 beginning with Rev. G. The MCU 03 Series is unaffected.

TECHNICAL SERVICE DEPARTMENT
REGENCY COMMUNICATIONS, INC.



MICRO-COM SERIES SERVICE MANUAL

SECTION 1 GENERAL INFORMATION

- 1-1 Description
- 1-2 Specifications
- 1-3 Equipment Supplied
- 1-4 Equipment Available, Not Supplied
- 1-5 Equipment Not Supplied
- 1-6 Installation
- 1-7 Operation
- 1-8 Crystal Specifications
- 1-9 Crystal Installation

SECTION 2 CIRCUIT DESCRIPTIONS

- 2-1 Main Board, Receiver
- 2-2 Audio Circuits
- 2-3 Control Board
- 2-4 Transmitter, Main Board and PA Deck
- 2-5 Receiver and Transmitter Block Diagram

SECTION 3 ALIGNMENT AND TUNING PROCEDURES

- 3-1 Transmitter and Receiver Alignment - TP-14-154
- 3-2 Double-Tuned Transmitter - TP-14-155
(1700-7404-200)
- 3-3 Double-Tuned Transmitter - TP-14-272 (704-064)

SECTION 4 MAIN BOARD 1700-7404-200

- 4-1 Main Board Parts Placement (DWG.#704-045)
- 4-2 Main Board Parts Overlay Diagram (DWG.#704-042)
- 4-3 Main Board Schematic Diagram (DWG.#704-038)
- 4-4 Main Board Jumper Diagram (DWG.#704-060)
- 4-5 Option Tie Points (DWG.#304-120)
- 4-6 Voltage Data 1700-7404-200 Main Board
- 4-7 Parts List 1700-7404-200 Main Board

SECTION 5 MAIN BOARD 704-064

- 5-1 Main Board Parts Placement (DWG.#704-062)
- 5-2 Main Board Parts Overlay Diagram (DWG.#704-066)
- 5-3 Main Board Schematic Diagram (DWG.#704-068)
- 5-4 Main Board Jumper Diagram (DWG.#704-067)
- 5-5 Option Tie Points (DWG.#304-211)
- 5-6 Voltage Data 704-064 Main Board
- 5-7 Parts List 704-064 Main Board

SECTION 6 Control Board

- 6-1 Control Board Placement (DWG.#604-068)
- 6-2 Control Board Overlay (DWG.#604-067)
- 6-3 Control Board Schematic (DWG.#604-059)
- 6-4 Control Board Parts List

SECTION 7 POWER AMPLIFIER MICRO COM U30 SERIES (504-165 REV.A-E)

- 7-1 PA MICRO COM U30 Placement (DWG.#504-177)
- 7-2 PA MICRO COM U30 Overlay (DWG.#504-178)
- 7-3 PA MICRO COM U30 Schematic (DWG.#604-095)
- 7-4 PA MICRO COM U30 Parts List

SECTION 8 POWER AMPLIFIER MICRO COM U15 SERIES (504-165 Rev.A-E)

- 8-1 PA MICRO COM U15 Placement (DWG.#504-223)
- 8-2 PA MICRO COM U15 Overlay (DWG.#504-224)
- 8-3 PA MICRO COM U15 Schematic (DWG.#604-119)
- 8-4 PA MICRO COM U15 Parts List

SECTION 9 POWER AMPLIFIER MICRO COM U03 SERIES

- 9-1 PA MICRO COM U03 Placement (DWG.#504-359)
- 9-2 PA MICRO COM U03 Overlay (DWG.#504-360)
- 9-3 PA MICRO COM U03 Schematic (DWG.#604-217)
- 9-4 PA MICRO COM U03 Parts List

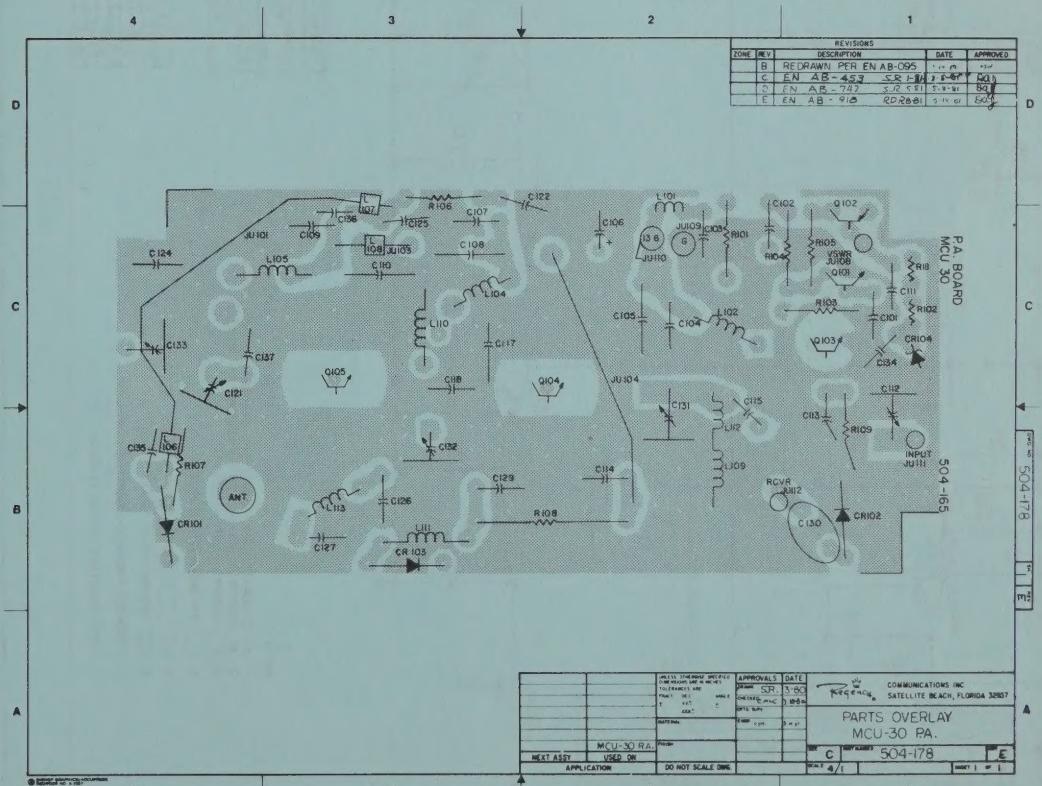
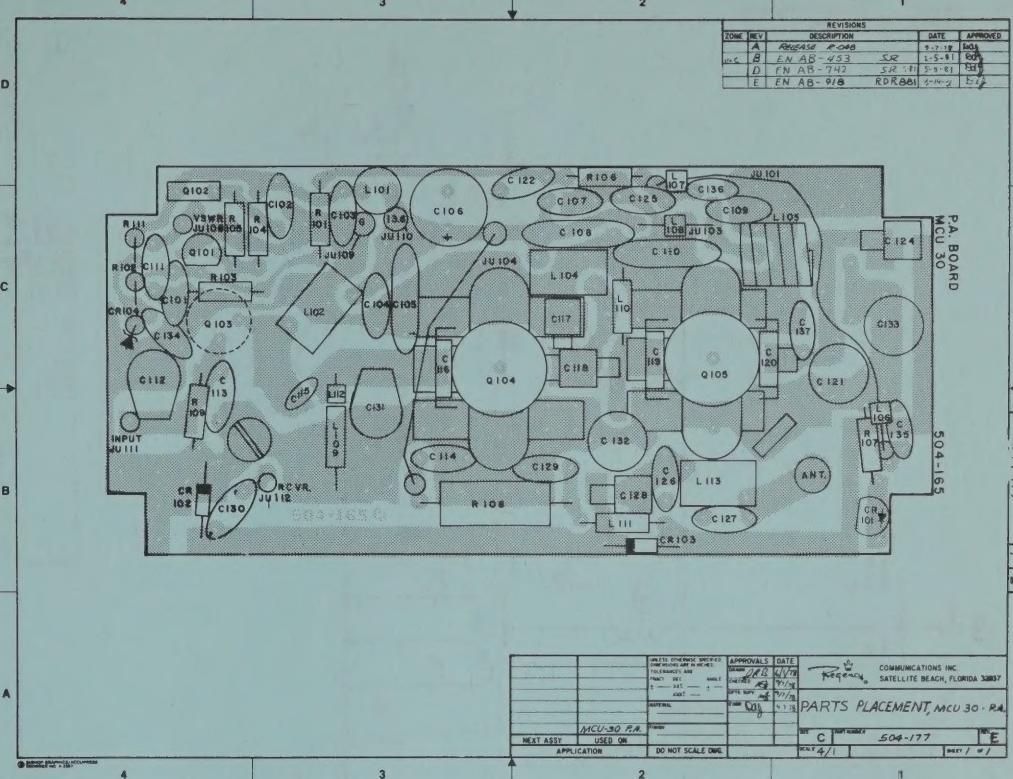
SECTION 10 MECHANICAL PARTS LIST

SECTION 11 POWER AMPLIFIER MICRO COM U30 SERIES (504-165 from Rev.G)

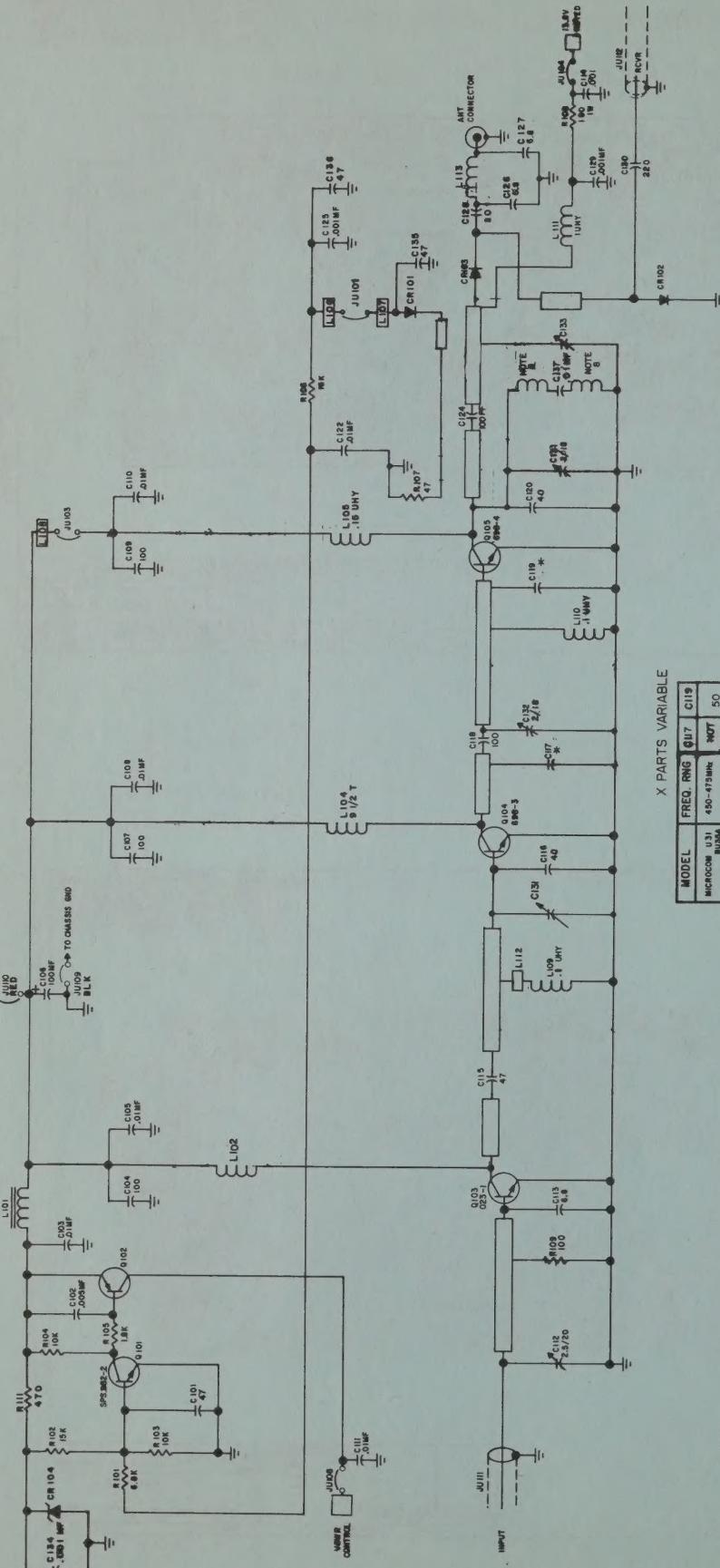
- 11-1 PA MICRO COM U30 Placement (DWG.#504-177)
- 11-2 PA MICRO COM U30 Overlay (DWG.#504-178)
- 11-3 PA MICRO COM U30 Schematic (DWG.#604-095)
- 11-4 PA MICRO COM U30 Parts List

SECTION 12 POWER AMPLIFIER MICRO COM U15 SERIES (504-165 from Rev.G)

- 12-1 PA MICRO COM U15 Placement (DWG.#504-223)
- 12-2 PA MICRO COM U15 Overlay (DWG.#504-224)
- 12-3 PA MICRO COM U15 Schematic (DWG.#604-119)
- 12-4 PA MICRO COM U15 Parts List



REVISIONS		DATE	REVISION
REV	DESCRIPTION	DATE	REVISION
A	BLANK	4-7-61	D
B	EN AB-247	SR 8-20	-
C	EN AB-742	1-81	-
D	EN AB-910	RDR B-61	6-7-61



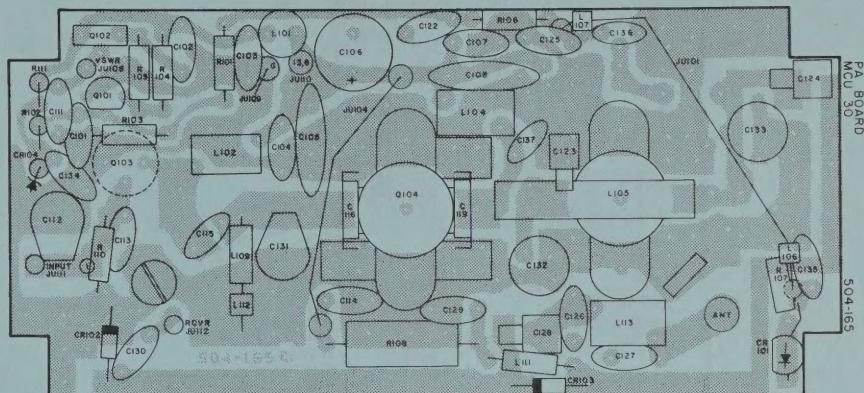
X PARTS VARIABLE

MODEL	FREQ. RNG	QU7	C119
MICROCOM U31 MCBU - BU38A MCBU - BU34	450-473MHz	NOT USED	50
MCBU - BU38 MICROCOM U31H BU34H	470-512 MHz	20PF	44

NOTES
1. ALL CARRIER VALUES NOT SPECIFIED OTHERWISE ARE DICE - PARAC

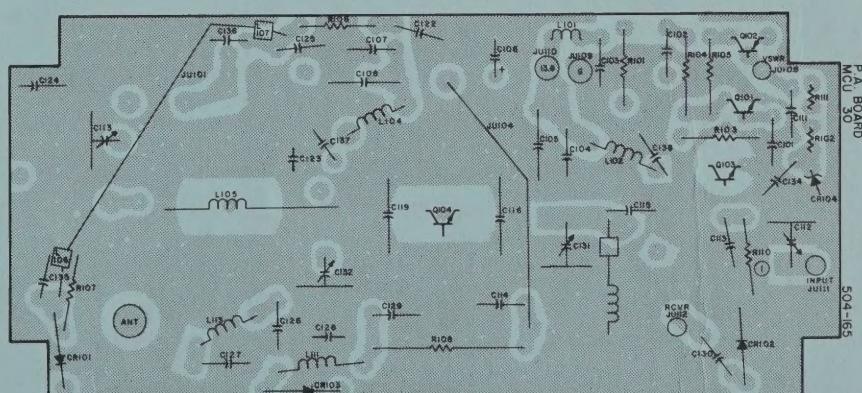
SCHEMATIC
MCU-30 PA DEC
REF ID: 604-025

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
D	REDRAWN EN AB-320	10 3-80	10-8-80	SDA
E	EN AB-780	SJR	5-81	5-12-81

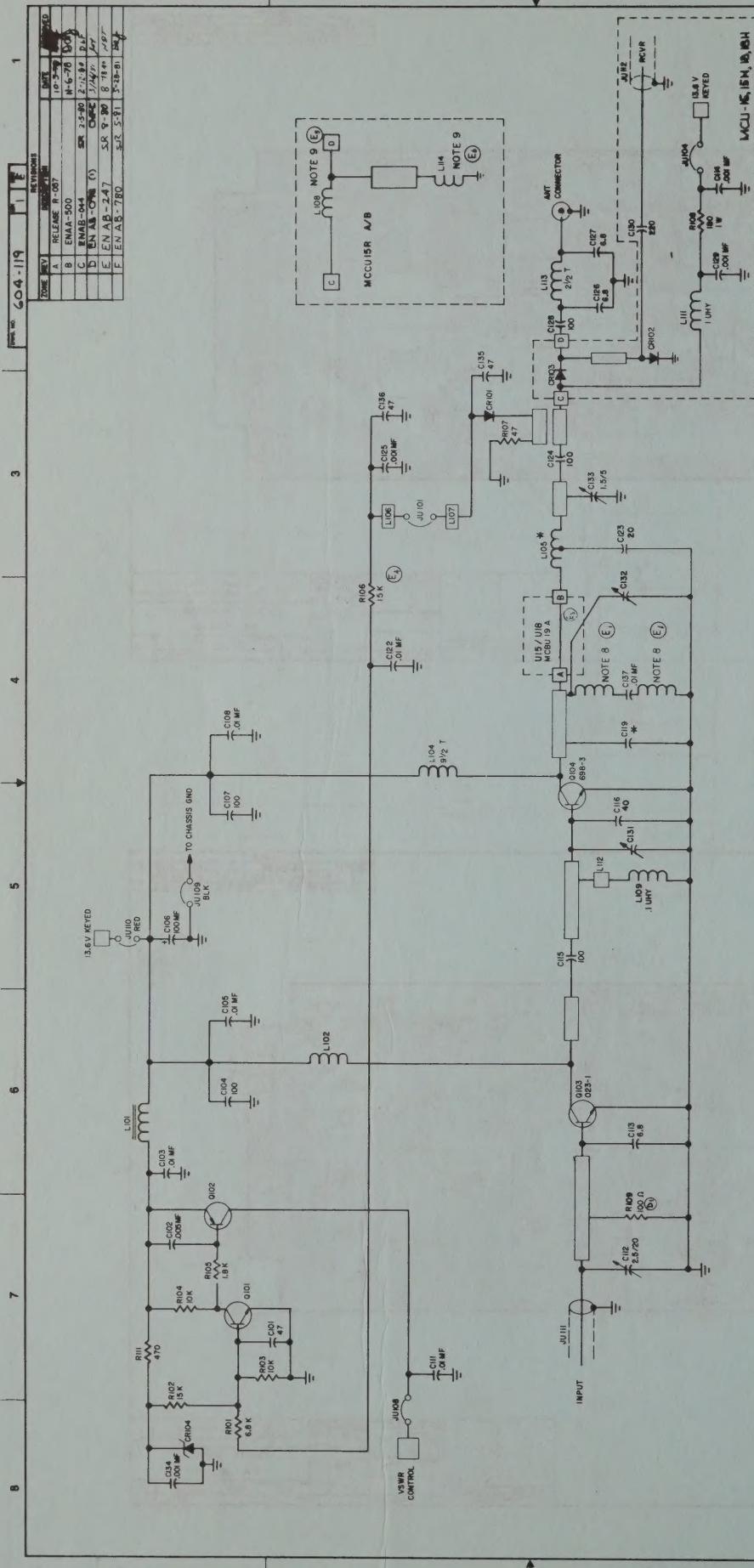


	APPROVALS	DATE	COMMUNICATIONS INC K-TRACK SATELLITE BEACH, FLORIDA 32957
MCU-15	DO NOT SCALE ONE	504-223	
NEXT ASSY	USED ON	DATE	PICTURE
1	1	1	1

REVISIONS					
ZONE	REV	DESCRIPTION	DATE	BY	REASON
D	REDRAWN	EX AB-320 DCD	10-6-90	ED	
E	EM AB-780	EX R-1	C-20-B1	ED	



DATE SYSTEMS BRIEFED IN THE FIELD		APPROVALS DATE		COMMUNICATIONS INC.	
TOLERANCES PERCENT		DDC 10-80		P.O. BOX 20007	
PRECY DEC 1 100% ADL		CHANGES REV C 10-80		SATELLITE BEACH, FLORIDA 33877	
EXPIRE DATE 10-80		MATERIAL REV C 10-80			
NEXT ASSY USED ON MCU-15		PARTS OVERLAY PA BOARD			
APPLICATION DO NOT SCALE DRAW		C 504-224		E	
SCALE 4 / 1					



LAST	NOT USED	
R111	R109	
C138	C109, 110, 117,	
L114	L118, [2], 132	
	L110	
	CRI04	
	Q104	JUN02, 105,
	JUL12	105, 107

PARTS VARIABLE (*)

MODEL	FREQUENCY RANGE	G19
MICRO COM U16	450-475 MHz	50
U18	450-475 MHz	
U19A		
MICRO COM U18H	470-512 MHz	40
U18B	470-512 MHz	

NOTES

ALL CAPACITOR VALUES NOT SPECIFIED OTHERWISE ARE PICOMA
 ALL RESISTOR VALUES NOT SPECIFIED OTHERWISE ARE OHM
 ○ DENOTES SOLDEE IN JUMPERS.
 □ DENOTES CIRCUIT TEST POINT
 DE NOTES TRANSMISSION LINE ON P.C. BOARD

EXCITER BOARD PARTS VARIABLE	
MAIN BOARD NO	RIO
1700 - 7404 - 200	1803 - 3412 - 400
704 - 064	100 A

1
2
3